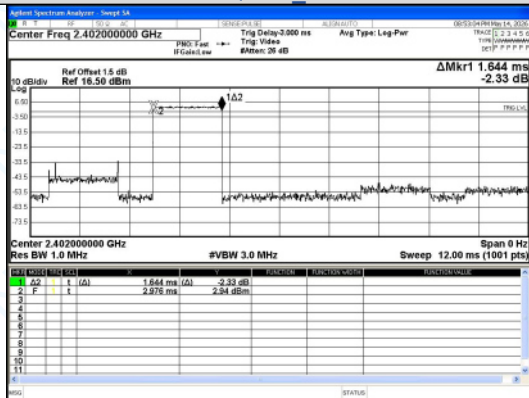
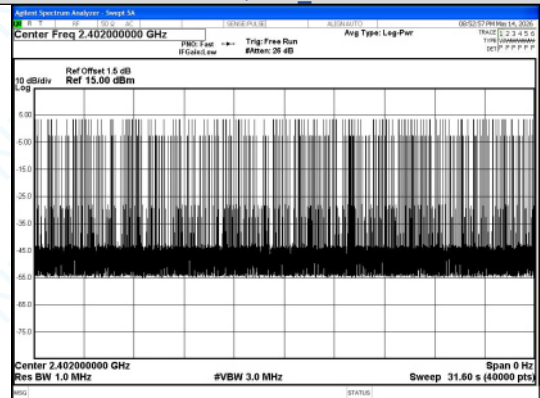
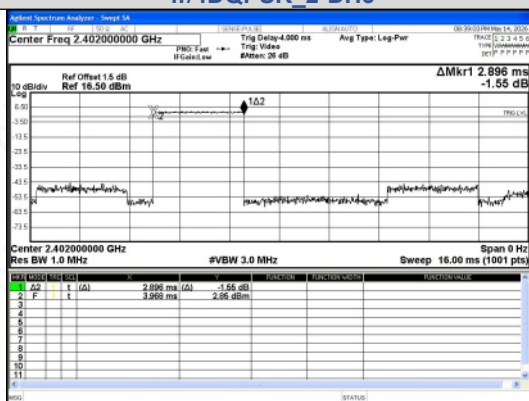
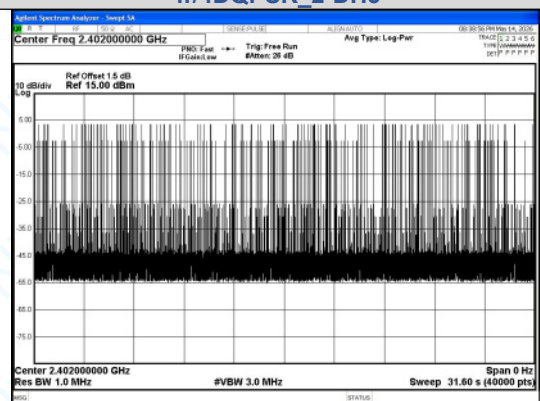
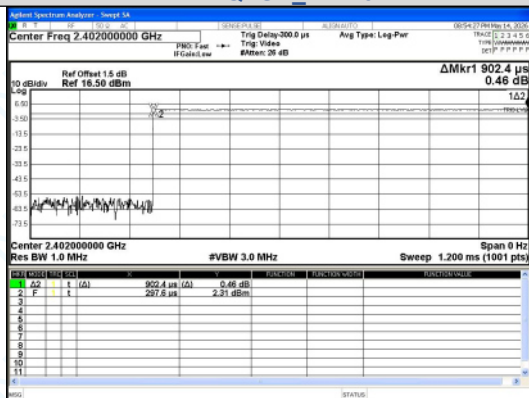
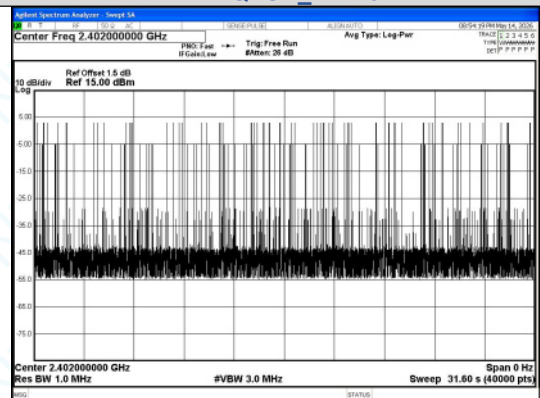
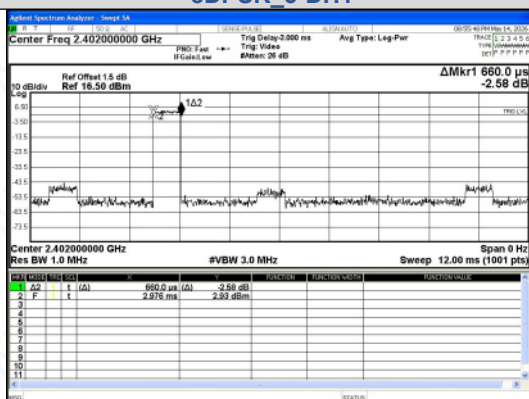
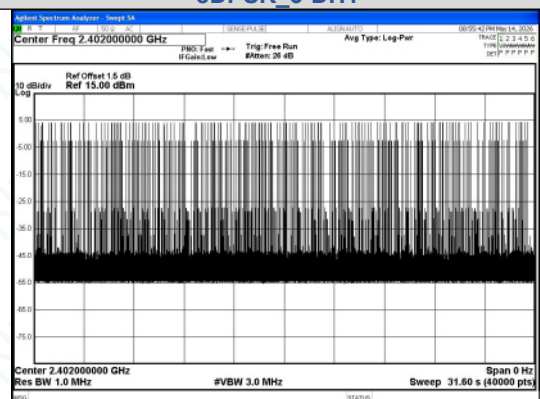
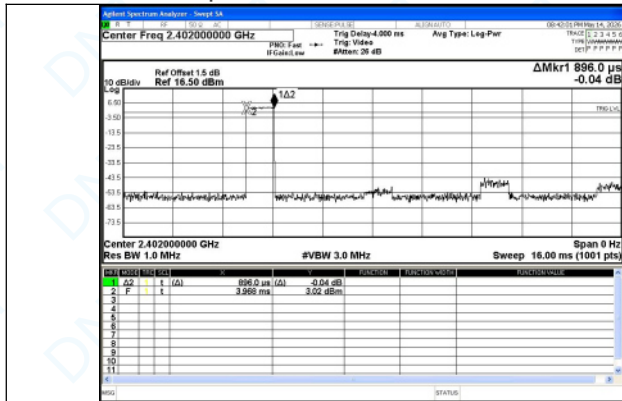
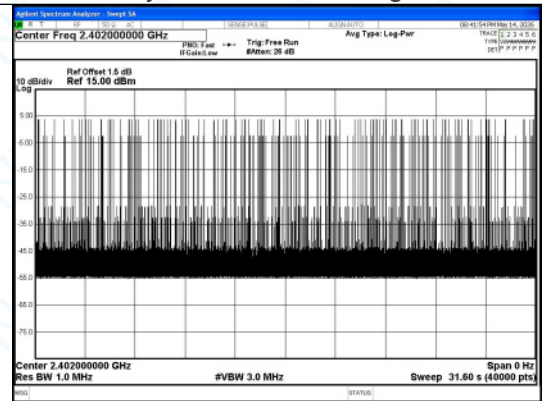


 $\pi/4$ DQPSK\_2-DH1 $\pi/4$ DQPSK\_2-DH1Pulse Width  
 $\pi/4$ DQPSK\_2-DH3Number of Pulses in 31.6 seconds  
 $\pi/4$ DQPSK\_2-DH3Pulse Width  
 $\pi/4$ DQPSK\_2-DH5Number of Pulses in 31.6 seconds  
 $\pi/4$ DQPSK\_2-DH5Pulse Width  
8DPSK\_3-DH1Number of Pulses in 31.6 seconds  
8DPSK\_3-DH1Pulse Width  
8DPSK\_3-DH3Number of Pulses in 31.6 seconds  
8DPSK\_3-DH3



Pulse Width  
8DPSK\_3-DH5



Number of Pulses in 31.6 seconds  
8DPSK\_3-DH5



## Appendix E: Number of hopping channels

### Test Result

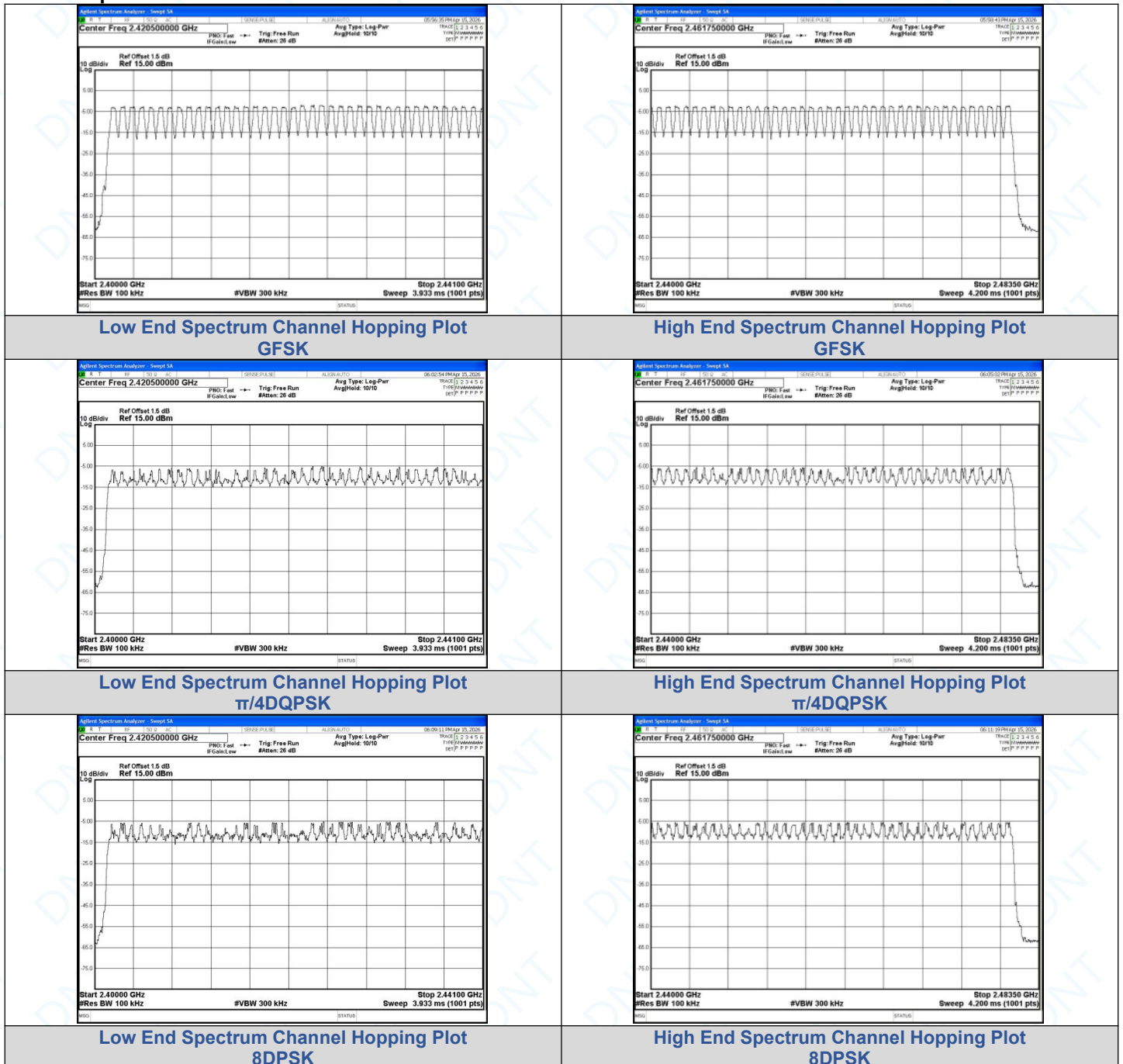
| Modulation    | Packet | Number of Hopping Channel | Limit | Result |
|---------------|--------|---------------------------|-------|--------|
| GFSK          | DH5    | 79                        | 15    | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 79                        | 15    | PASS   |
| 8DPSK         | 3-DH5  | 79                        | 15    | PASS   |

Note :

Both left and right earphone have tested, The Left earphone is the worst, only the worse case was reported.



## Test Graphs



**Appendix F: Conducted Spurious & Band Edge Emission****Test Result**

| Modulation    | Packet | Channel | OOB<br>Emission<br>Frequency<br>(MHz) | OOB<br>Emission<br>Level<br>(dBm) | Limit<br>(dBm) | Over Limit<br>(dB) | Result |
|---------------|--------|---------|---------------------------------------|-----------------------------------|----------------|--------------------|--------|
| GFSK          | DH5    | 0       | 668.99                                | -65.125                           | -16.97         | -48.155            | PASS   |
|               |        |         | 2395.55                               | -50.403                           | -16.97         | -33.433            | PASS   |
|               |        |         | 2400.00                               | -42.383                           | -16.97         | -25.413            | PASS   |
|               |        |         | 4803.90                               | -51.749                           | -16.97         | -34.779            | PASS   |
|               |        |         | 7200.00                               | -49.120                           | -16.97         | -32.150            | PASS   |
|               |        |         | 7205.48                               | -60.812                           | -16.97         | -43.842            | PASS   |
|               |        |         | 9601.95                               | -44.398                           | -16.97         | -27.428            | PASS   |
|               |        |         | 9608.02                               | -67.287                           | -16.97         | -50.317            | PASS   |
|               |        |         | 13651.7                               | -60.901                           | -16.97         | -43.931            | PASS   |
|               |        |         | 16526.6                               | -58.149                           | -16.97         | -41.179            | PASS   |
|               |        |         | 19203.9                               | -45.194                           | -16.97         | -28.224            | PASS   |
|               |        |         | 23967.0                               | -54.117                           | -16.97         | -37.147            | PASS   |
|               |        | 39      | 24509.8                               | -52.778                           | -16.97         | -35.808            | PASS   |
|               |        |         | 922.69                                | -65.858                           | -16.6          | -49.258            | PASS   |
|               |        |         | 2632.95                               | -52.682                           | -16.6          | -36.082            | PASS   |
|               |        |         | 4881.90                               | -50.364                           | -16.6          | -33.764            | PASS   |
|               |        |         | 7317.00                               | -50.220                           | -16.6          | -33.620            | PASS   |
|               |        |         | 7322.85                               | -62.368                           | -16.6          | -45.768            | PASS   |
|               |        |         | 9757.95                               | -42.623                           | -16.6          | -26.023            | PASS   |
|               |        |         | 9764.10                               | -66.994                           | -16.6          | -50.394            | PASS   |
|               |        |         | 14976.8                               | -60.961                           | -16.6          | -44.361            | PASS   |
|               |        |         | 16514.0                               | -57.835                           | -16.6          | -41.235            | PASS   |
|               |        |         | 19515.9                               | -45.255                           | -16.6          | -28.655            | PASS   |
|               |        |         | 23931.8                               | -53.726                           | -16.6          | -37.126            | PASS   |
|               |        | 78      | 24012.9                               | -53.531                           | -16.6          | -36.931            | PASS   |
|               |        |         | 905.13                                | -65.806                           | -16.65         | -49.156            | PASS   |
|               |        |         | 2483.50                               | -54.521                           | -16.65         | -37.871            | PASS   |
|               |        |         | 2506.55                               | -53.301                           | -16.65         | -36.651            | PASS   |
|               |        |         | 4959.75                               | -51.725                           | -16.65         | -35.075            | PASS   |
|               |        |         | 7434.07                               | -51.013                           | -16.65         | -34.363            | PASS   |
|               |        |         | 7440.30                               | -61.482                           | -16.65         | -44.832            | PASS   |
|               |        |         | 9913.95                               | -43.014                           | -16.65         | -26.364            | PASS   |
|               |        |         | 9919.50                               | -66.622                           | -16.65         | -49.972            | PASS   |
|               |        |         | 14985.8                               | -61.080                           | -16.65         | -44.430            | PASS   |
|               |        |         | 16592.5                               | -58.262                           | -16.65         | -41.612            | PASS   |
|               |        |         | 19828.0                               | -44.982                           | -16.65         | -28.332            | PASS   |
| $\pi/4$ DQPSK | 2-DH5  | 0       | 23990.5                               | -53.265                           | -16.65         | -36.615            | PASS   |
|               |        |         | 24729.4                               | -53.491                           | -16.65         | -36.841            | PASS   |
|               |        |         | 889.59                                | -65.991                           | -17.21         | -48.781            | PASS   |
|               |        |         | 2395.55                               | -49.304                           | -17.21         | -32.094            | PASS   |
|               |        |         | 2400.00                               | -42.514                           | -17.21         | -25.304            | PASS   |
|               |        |         | 4803.90                               | -52.058                           | -17.21         | -34.848            | PASS   |
|               |        |         | 7199.93                               | -50.937                           | -17.21         | -33.727            | PASS   |
|               |        |         | 7206.45                               | -64.811                           | -17.21         | -47.601            | PASS   |
|               |        |         | 9601.95                               | -44.001                           | -17.21         | -26.791            | PASS   |
|               |        |         | 9607.80                               | -67.134                           | -17.21         | -49.924            | PASS   |



|       |       |    |         |         |        |         |      |
|-------|-------|----|---------|---------|--------|---------|------|
|       |       |    | 14528.8 | -61.516 | -17.21 | -44.306 | PASS |
|       |       |    | 16101.5 | -57.981 | -17.21 | -40.771 | PASS |
|       |       |    | 19204.0 | -45.275 | -17.21 | -28.065 | PASS |
|       |       |    | 23965.5 | -53.426 | -17.21 | -36.216 | PASS |
|       |       |    | 24881.3 | -52.686 | -17.21 | -35.476 | PASS |
|       |       | 39 | 851.88  | -65.873 | -16.57 | -49.303 | PASS |
|       |       |    | 2396.30 | -54.107 | -16.57 | -37.537 | PASS |
|       |       |    | 4881.68 | -53.130 | -16.57 | -36.560 | PASS |
|       |       |    | 7316.77 | -52.367 | -16.57 | -35.797 | PASS |
|       |       |    | 7323.45 | -60.594 | -16.57 | -44.024 | PASS |
|       |       |    | 9757.95 | -42.303 | -16.57 | -25.733 | PASS |
|       |       |    | 9764.40 | -67.522 | -16.57 | -50.952 | PASS |
|       |       |    | 14979.8 | -60.525 | -16.57 | -43.955 | PASS |
|       |       |    | 16071.3 | -58.644 | -16.57 | -42.074 | PASS |
|       |       |    | 19515.9 | -45.513 | -16.57 | -28.943 | PASS |
|       |       |    | 23979.2 | -53.591 | -16.57 | -37.021 | PASS |
|       |       |    | 24786.8 | -53.475 | -16.57 | -36.905 | PASS |
|       |       | 78 | 902.44  | -65.205 | -16.54 | -48.665 | PASS |
|       |       |    | 2483.50 | -57.485 | -16.54 | -40.945 | PASS |
|       |       |    | 2524.40 | -54.253 | -16.54 | -37.713 | PASS |
|       |       |    | 4959.60 | -54.225 | -16.54 | -37.685 | PASS |
|       |       |    | 7434.00 | -54.600 | -16.54 | -38.060 | PASS |
|       |       |    | 7440.90 | -65.191 | -16.54 | -48.651 | PASS |
|       |       |    | 9913.95 | -42.899 | -16.54 | -26.359 | PASS |
|       |       |    | 9920.02 | -67.678 | -16.54 | -51.138 | PASS |
|       |       |    | 13816.2 | -60.998 | -16.54 | -44.458 | PASS |
|       |       |    | 16601.5 | -58.826 | -16.54 | -42.286 | PASS |
|       |       |    | 19827.9 | -44.763 | -16.54 | -28.223 | PASS |
|       |       |    | 23998.7 | -52.319 | -16.54 | -35.779 | PASS |
|       |       |    | 24247.5 | -53.105 | -16.54 | -36.566 | PASS |
| 8DPSK | 3-DH5 | 0  | 851.64  | -64.671 | -16.84 | -47.831 | PASS |
|       |       |    | 2396.00 | -52.210 | -16.84 | -35.370 | PASS |
|       |       |    | 2400.00 | -43.350 | -16.84 | -26.510 | PASS |
|       |       |    | 4803.98 | -54.785 | -16.84 | -37.945 | PASS |
|       |       |    | 7199.93 | -55.160 | -16.84 | -38.320 | PASS |
|       |       |    | 7205.18 | -63.123 | -16.84 | -46.283 | PASS |
|       |       |    | 9601.95 | -44.070 | -16.84 | -27.230 | PASS |
|       |       |    | 9608.40 | -67.430 | -16.84 | -50.590 | PASS |
|       |       |    | 14973.0 | -60.177 | -16.84 | -43.337 | PASS |
|       |       |    | 16545.4 | -58.481 | -16.84 | -41.641 | PASS |
|       |       |    | 20878.8 | -56.556 | -16.84 | -39.716 | PASS |
|       |       |    | 23985.2 | -53.302 | -16.84 | -36.462 | PASS |
|       |       |    | 24519.8 | -53.105 | -16.84 | -36.265 | PASS |
|       |       | 39 | 374.11  | -65.269 | -16.35 | -48.919 | PASS |
|       |       |    | 2632.85 | -51.871 | -16.35 | -35.521 | PASS |
|       |       |    | 4878.98 | -54.130 | -16.35 | -37.780 | PASS |
|       |       |    | 4881.82 | -55.204 | -16.35 | -38.854 | PASS |
|       |       |    | 6133.12 | -63.404 | -16.35 | -47.054 | PASS |
|       |       |    | 7323.38 | -65.007 | -16.35 | -48.657 | PASS |
|       |       |    | 9757.95 | -42.443 | -16.35 | -26.093 | PASS |
|       |       |    | 9764.17 | -68.139 | -16.35 | -51.789 | PASS |
|       |       |    | 14951.5 | -60.714 | -16.35 | -44.364 | PASS |
|       |       |    | 16528.0 | -57.590 | -16.35 | -41.240 | PASS |



|    |         |         |        |         |      |
|----|---------|---------|--------|---------|------|
| 78 | 19516.0 | -45.417 | -16.35 | -29.067 | PASS |
|    | 23893.0 | -54.042 | -16.35 | -37.692 | PASS |
|    | 24021.2 | -52.956 | -16.35 | -36.606 | PASS |
|    | 628.15  | -66.023 | -16.15 | -49.873 | PASS |
|    | 2483.50 | -58.086 | -16.15 | -41.936 | PASS |
|    | 2520.15 | -53.661 | -16.15 | -37.511 | PASS |
|    | 4960.27 | -54.756 | -16.15 | -38.606 | PASS |
|    | 7434.15 | -51.935 | -16.15 | -35.785 | PASS |
|    | 7440.15 | -67.977 | -16.15 | -51.827 | PASS |
|    | 9913.95 | -43.245 | -16.15 | -27.095 | PASS |
|    | 9919.95 | -67.228 | -16.15 | -51.078 | PASS |
|    | 13781.5 | -61.168 | -16.15 | -45.018 | PASS |
|    | 16555.0 | -58.620 | -16.15 | -42.470 | PASS |
|    | 20805.6 | -56.449 | -16.15 | -40.299 | PASS |
|    | 21333.5 | -53.835 | -16.15 | -37.685 | PASS |
|    | 24996.1 | -53.718 | -16.15 | -37.568 | PASS |

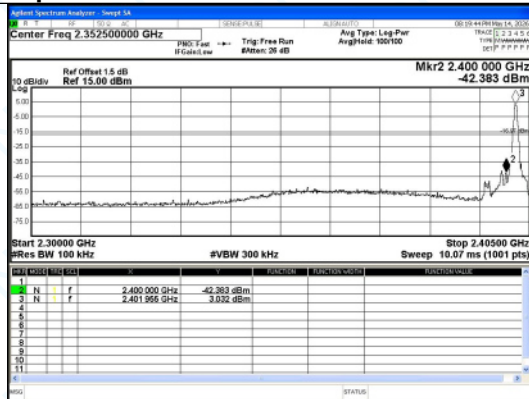
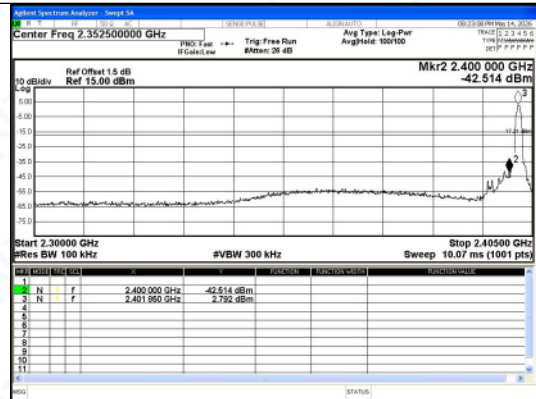
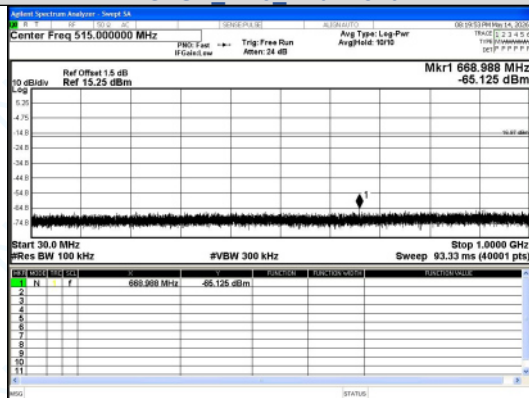
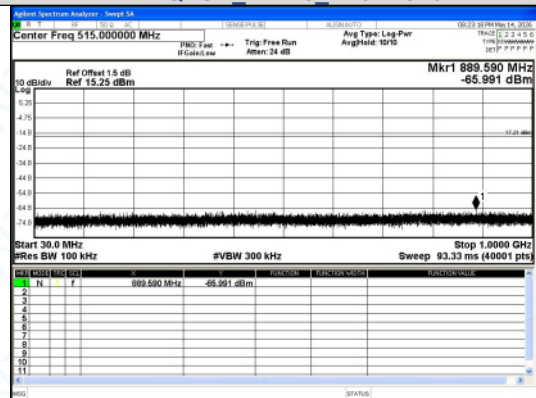
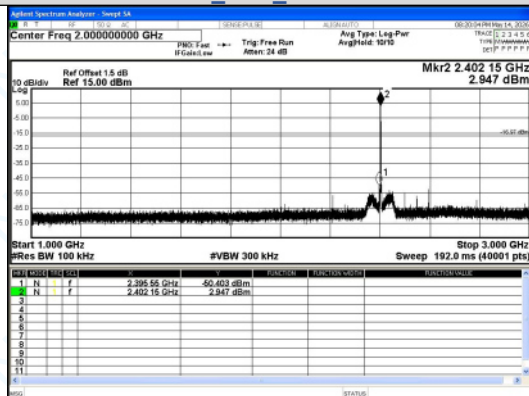
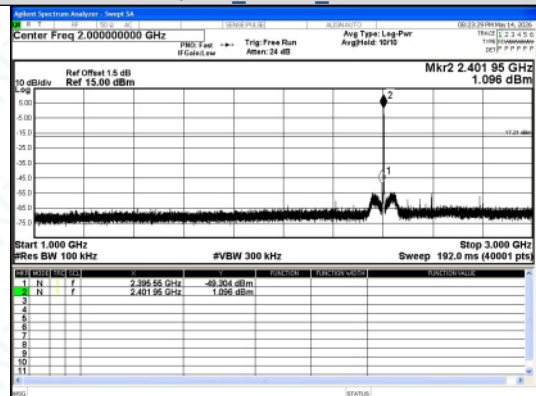
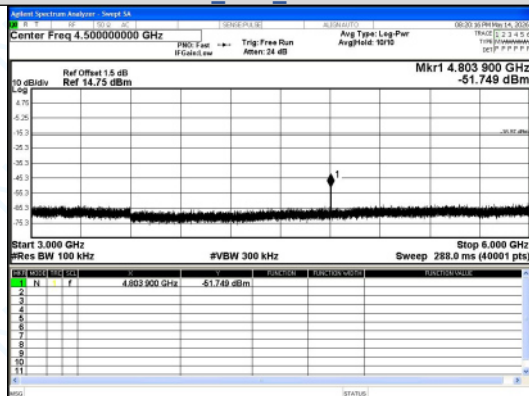
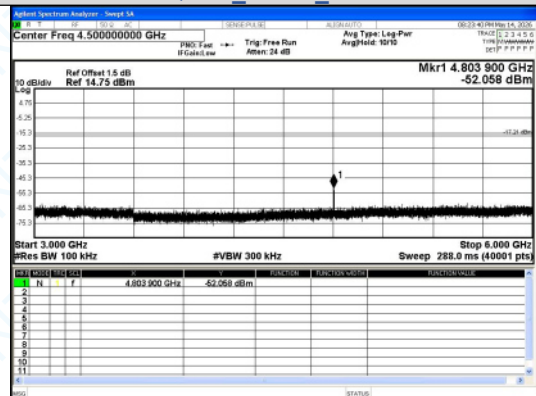
Note: input compensation coefficient (dB)= Cable Loss (dB)

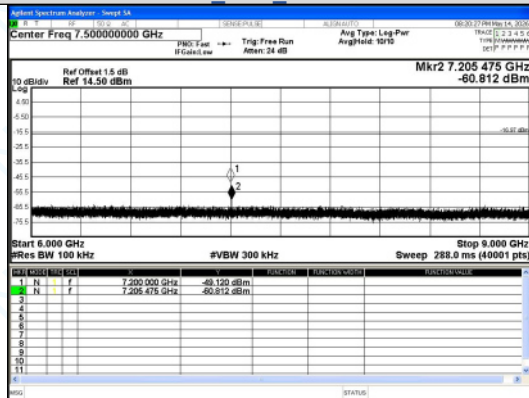
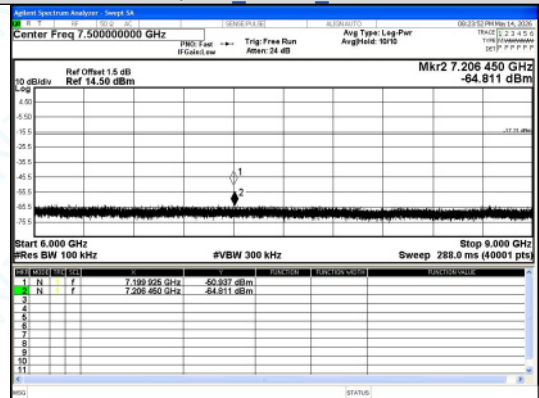
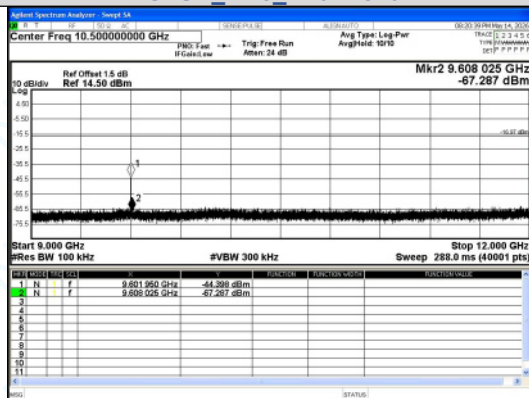
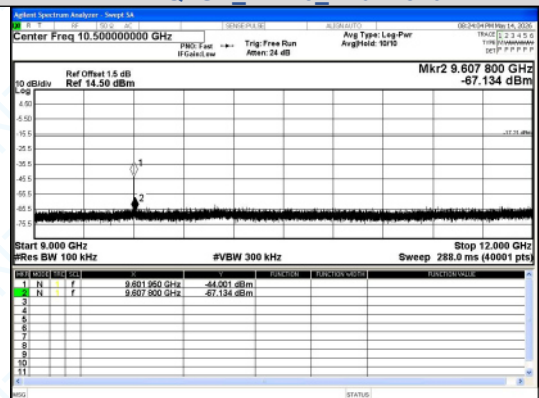
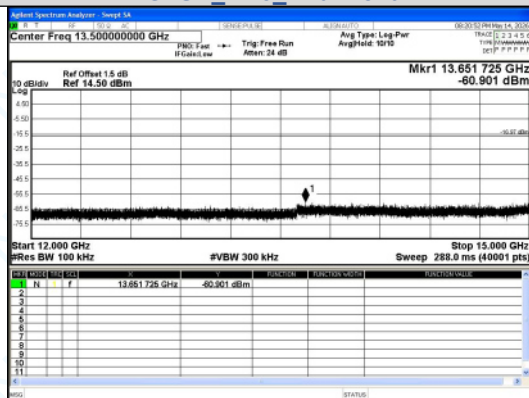
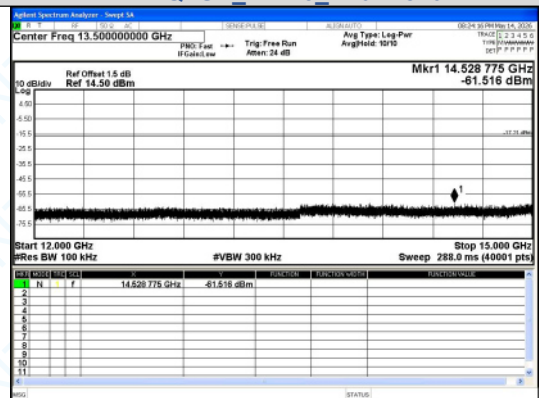
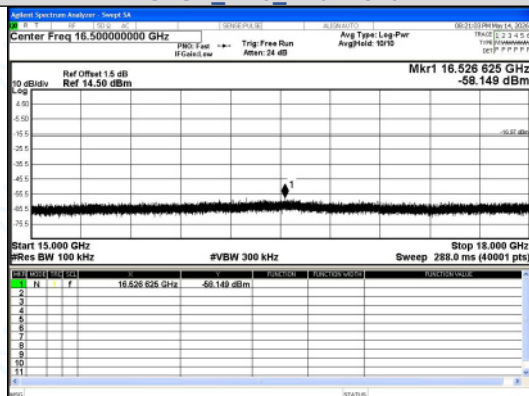
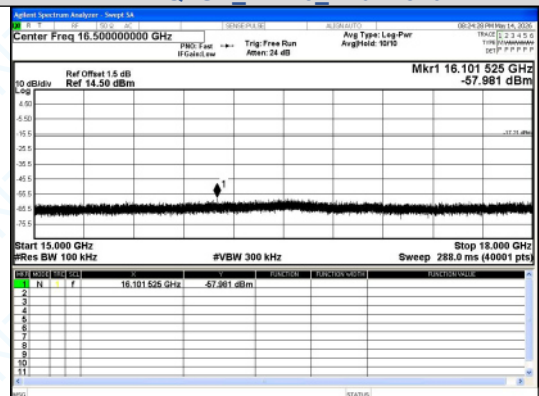
Note :

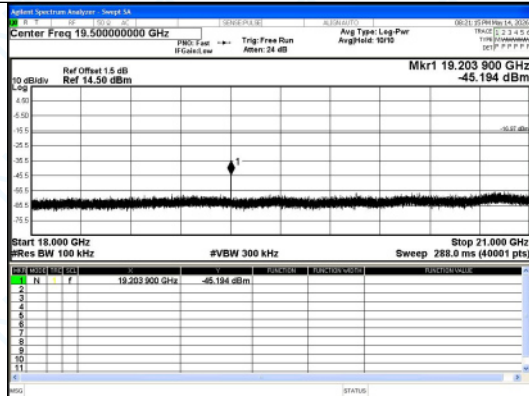
Both left and right earphone have tested, The Left earphone is the worst, only the worse case was reported.



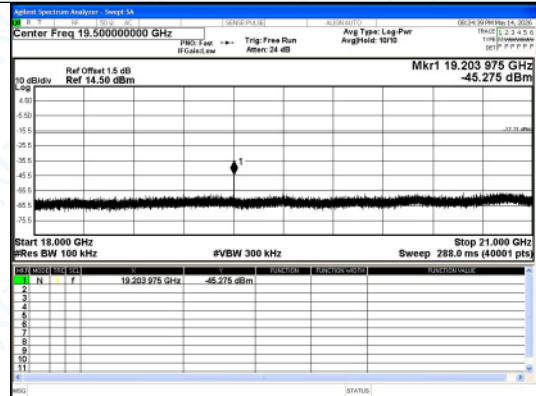
## Test Graphs

Out Of Band Emission  
GFSK DH5 Channel 0Out Of Band Emission  
 $\pi/4$ DQPSK 2-DH5 Channel 030.0 MHz - 1000.0 MHz  
GFSK DH5 Channel 030.0 MHz - 1000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 01000.0 MHz - 3000.0 MHz  
GFSK DH5 Channel 01000.0 MHz - 3000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 03000.0 MHz - 6000.0 MHz  
GFSK DH5 Channel 03000.0 MHz - 6000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 0

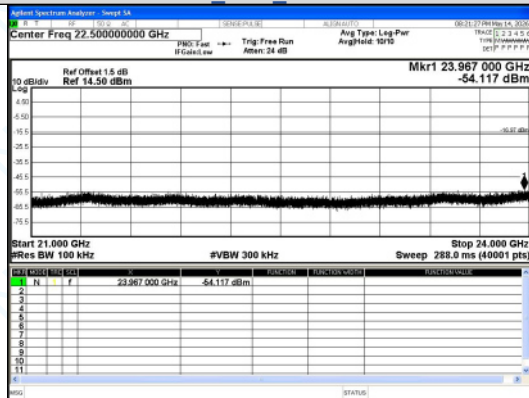
**GFSK\_DH5\_Channel 0** **$\pi$ /4DQPSK\_2-DH5\_Channel 0****6000.0 MHz - 9000.0 MHz  
GFSK\_DH5\_Channel 0****6000.0 MHz - 9000.0 MHz  
 $\pi$ /4DQPSK\_2-DH5\_Channel 0****9000.0 MHz - 12000.0 MHz  
GFSK\_DH5\_Channel 0****9000.0 MHz - 12000.0 MHz  
 $\pi$ /4DQPSK\_2-DH5\_Channel 0****12000.0 MHz - 15000.0 MHz  
GFSK\_DH5\_Channel 0****12000.0 MHz - 15000.0 MHz  
 $\pi$ /4DQPSK\_2-DH5\_Channel 0****15000.0 MHz - 18000.0 MHz  
GFSK\_DH5\_Channel 0****15000.0 MHz - 18000.0 MHz  
 $\pi$ /4DQPSK\_2-DH5\_Channel 0**



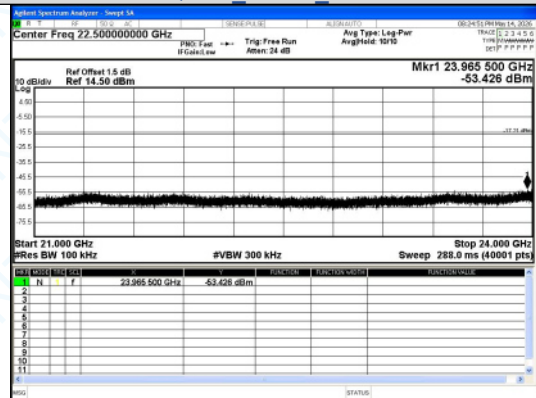
18000.0 MHz - 21000.0 MHz  
GFSK DH5 Channel 0



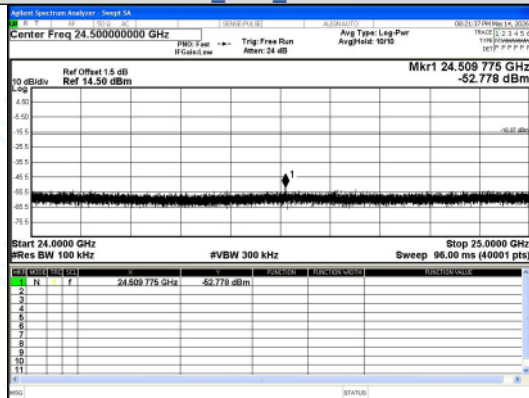
18000.0 MHz - 21000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 0



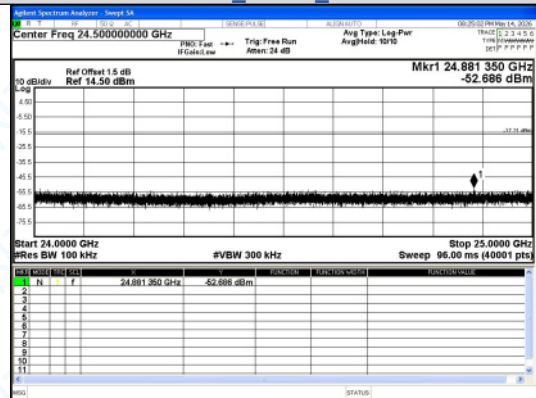
21000.0 MHz - 24000.0 MHz  
GFSK DH5 Channel 0



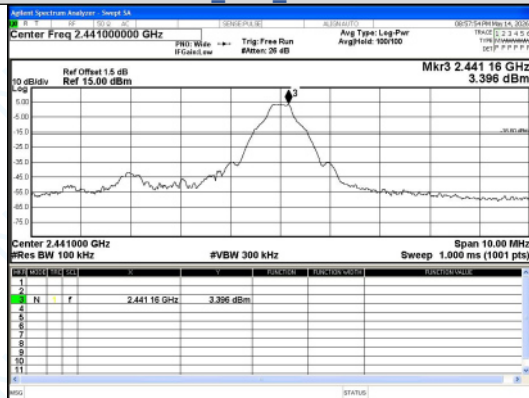
21000.0 MHz - 24000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 0



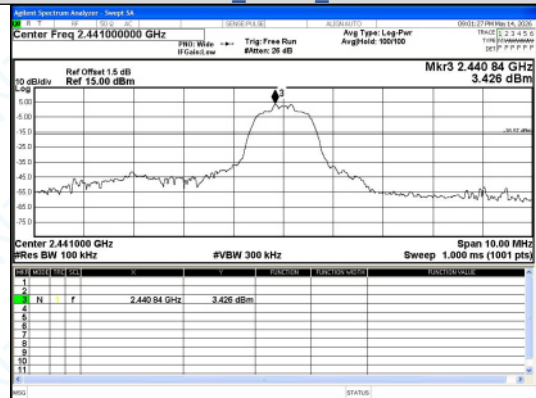
24000.0 MHz - 25000.0 MHz  
GFSK DH5 Channel 0



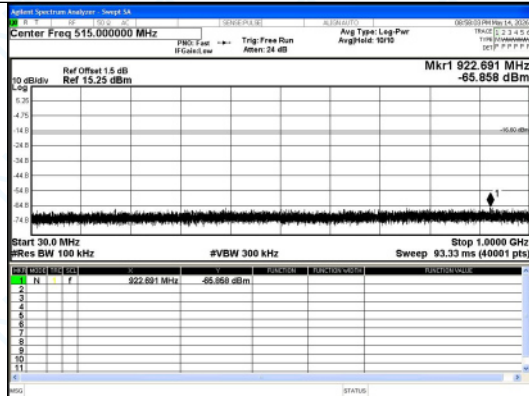
24000.0 MHz - 25000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 0



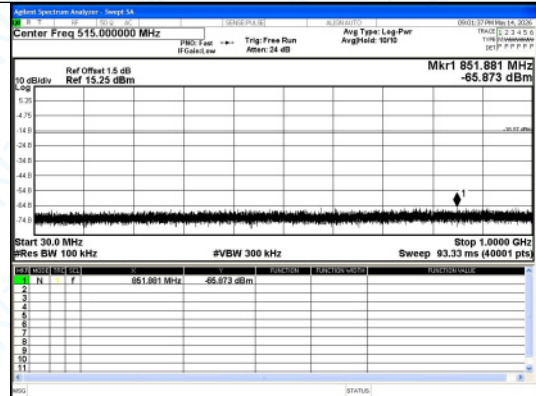
Out Of Band Emission  
GFSK DH5 Channel 39



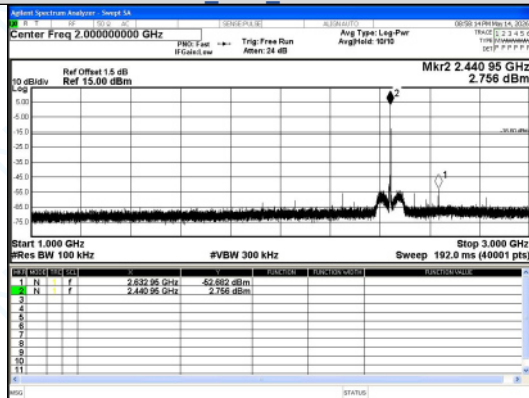
Out Of Band Emission  
 $\pi/4$ DQPSK 2-DH5 Channel 39



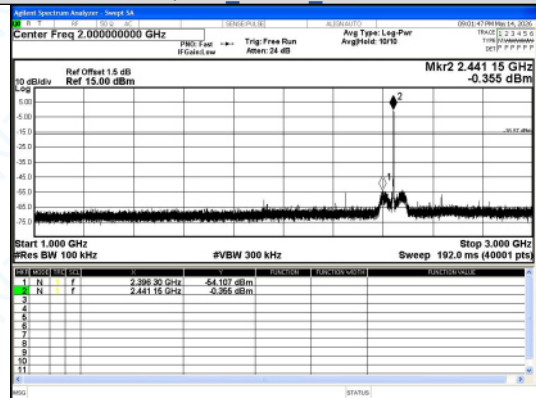
30.0 MHz - 1000.0 MHz  
GFSK DH5 Channel 39



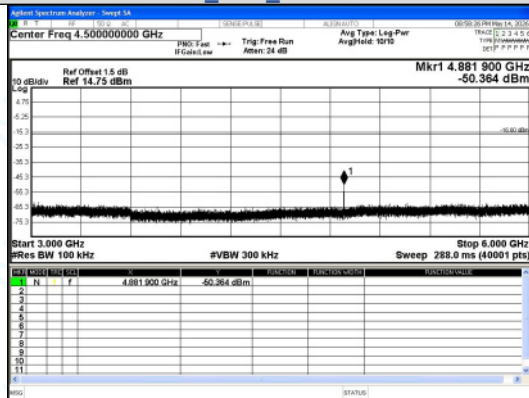
30.0 MHz - 1000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 39



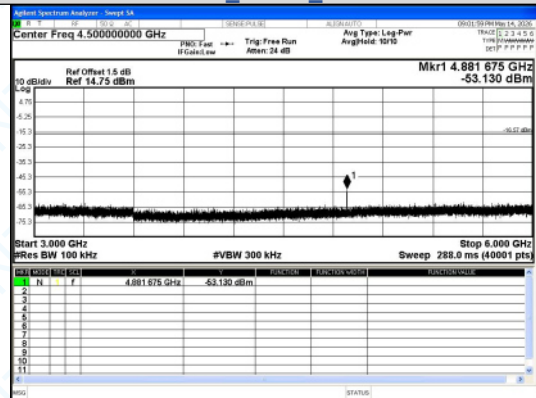
1000.0 MHz - 3000.0 MHz  
GFSK DH5 Channel 39



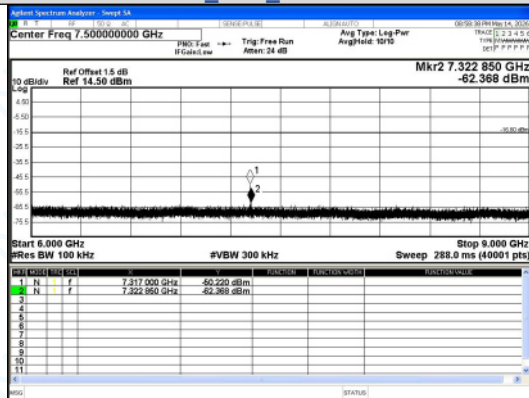
1000.0 MHz - 3000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 39



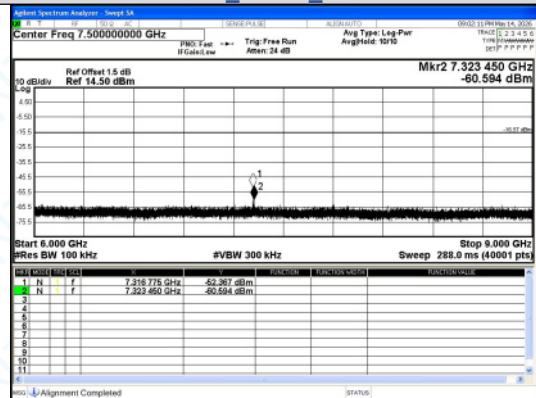
3000.0 MHz - 6000.0 MHz  
GFSK DH5 Channel 39



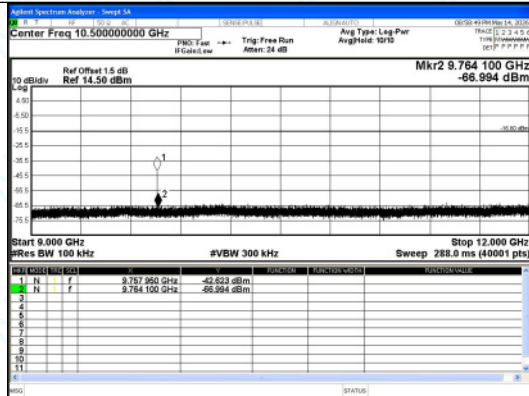
3000.0 MHz - 6000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 39



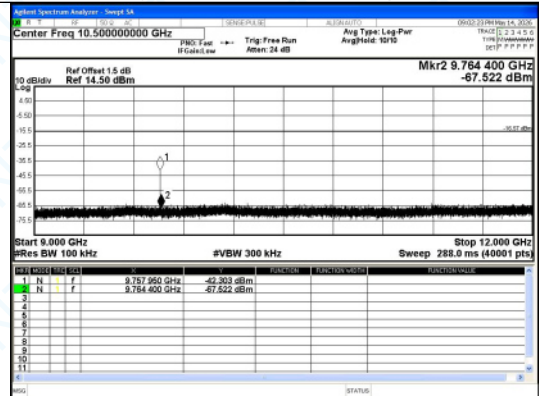
6000.0 MHz - 9000.0 MHz  
GFSK DH5 Channel 39



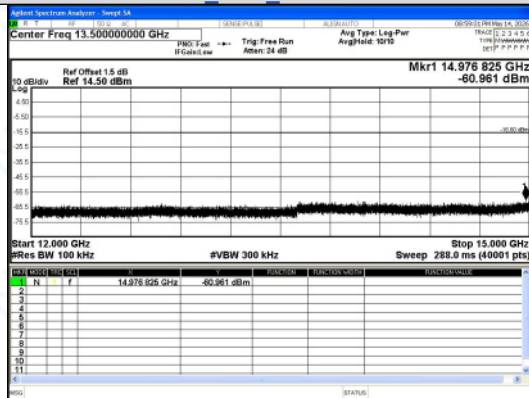
6000.0 MHz - 9000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 39



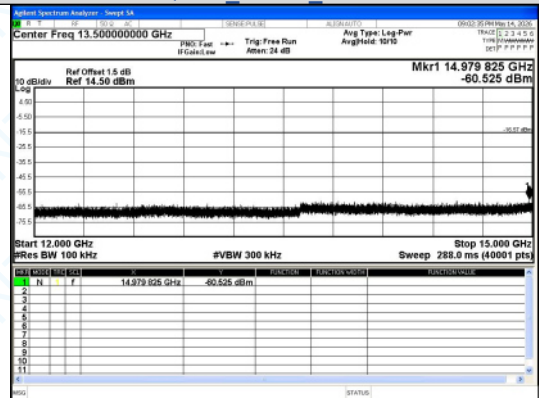
9000.0 MHz - 12000.0 MHz  
GFSK DH5 Channel 39



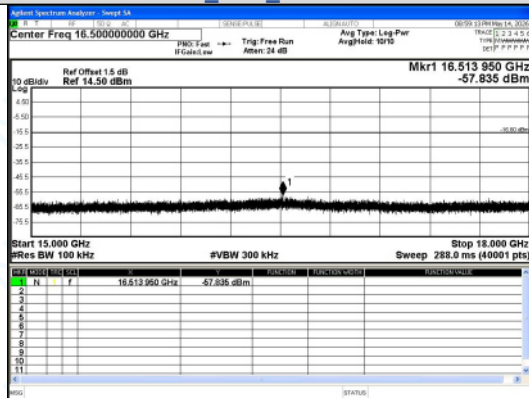
9000.0 MHz - 12000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 39



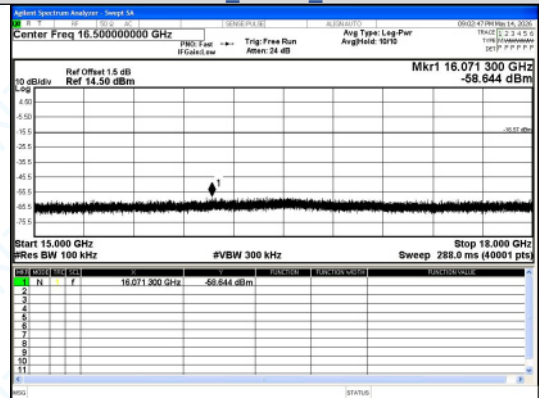
12000.0 MHz - 15000.0 MHz  
GFSK DH5 Channel 39



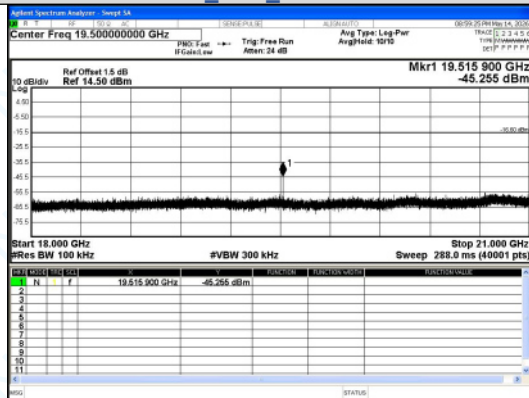
12000.0 MHz - 15000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 39



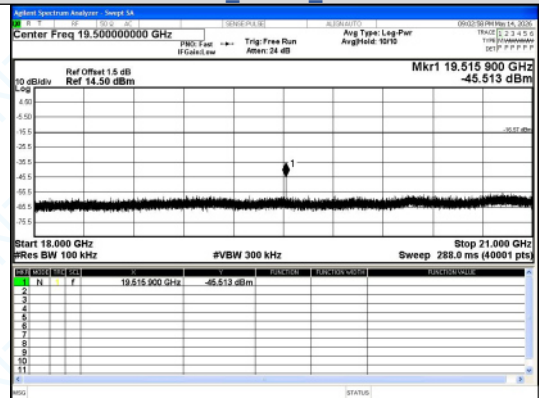
15000.0 MHz - 18000.0 MHz  
GFSK DH5 Channel 39



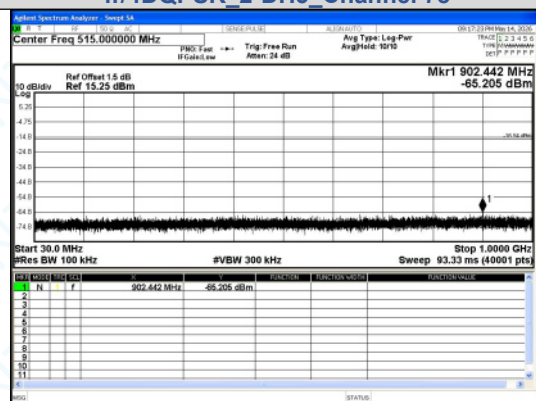
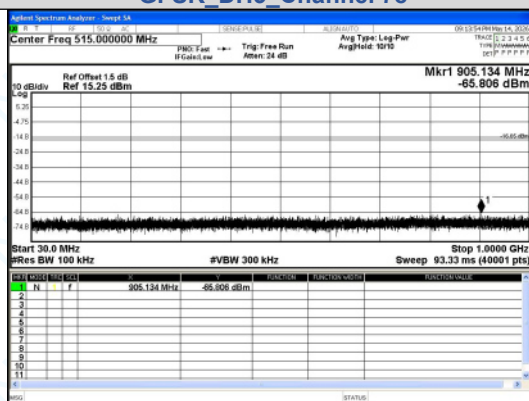
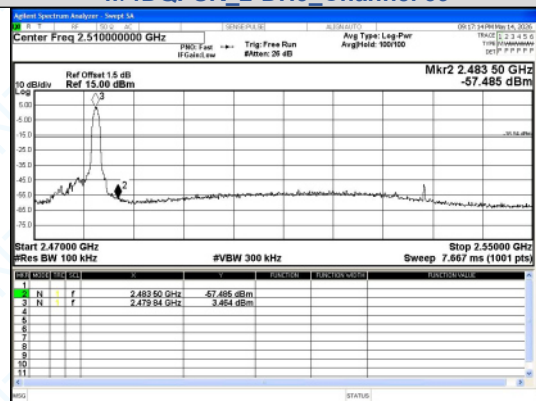
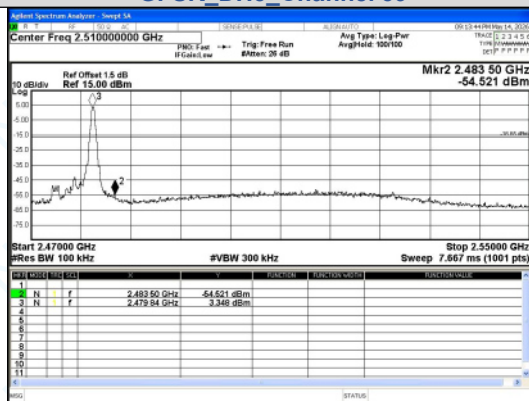
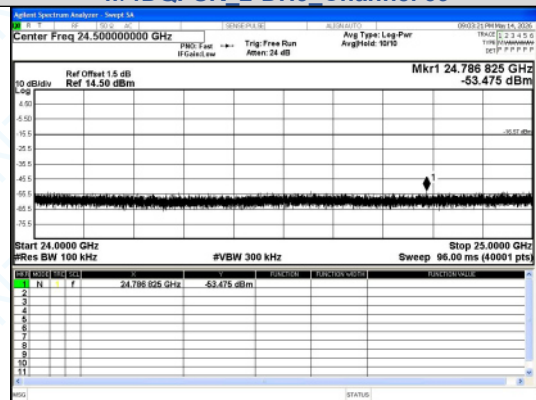
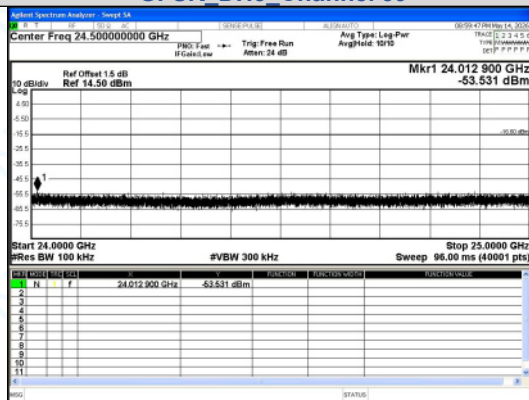
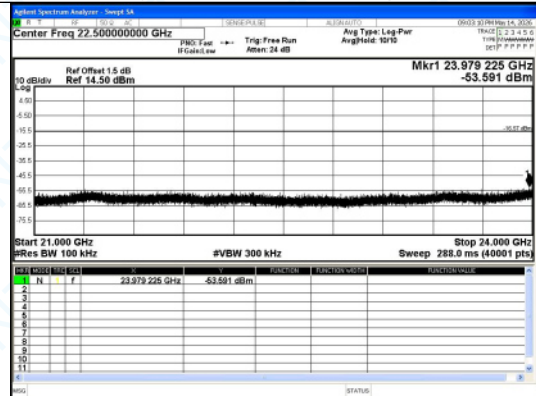
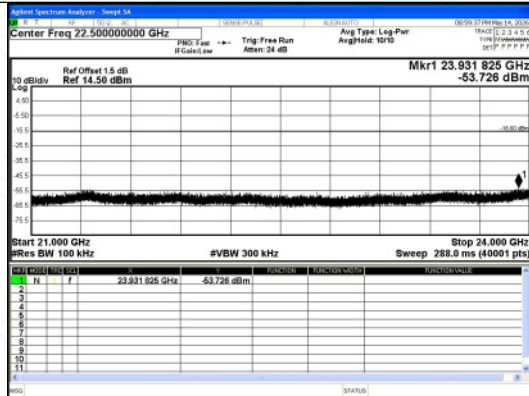
15000.0 MHz - 18000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 39

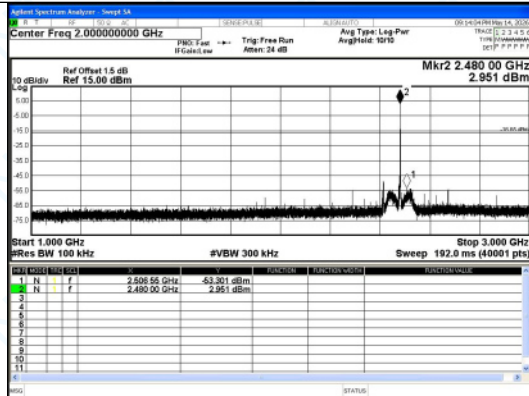


18000.0 MHz - 21000.0 MHz  
GFSK DH5 Channel 39

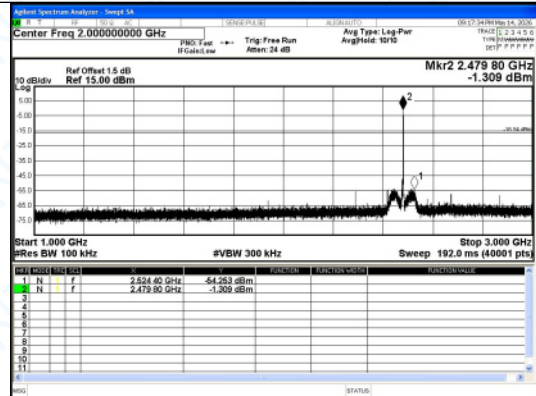


18000.0 MHz - 21000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 39

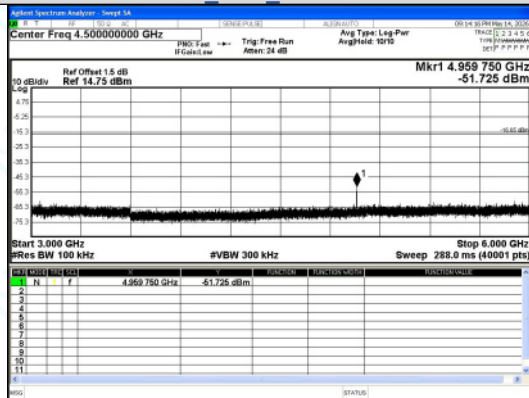




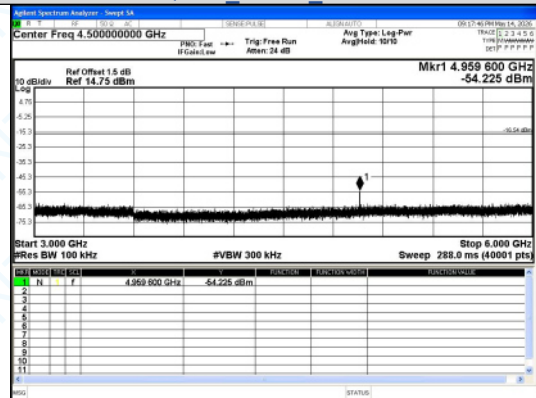
1000.0 MHz - 3000.0 MHz  
GFSK DH5 Channel 78



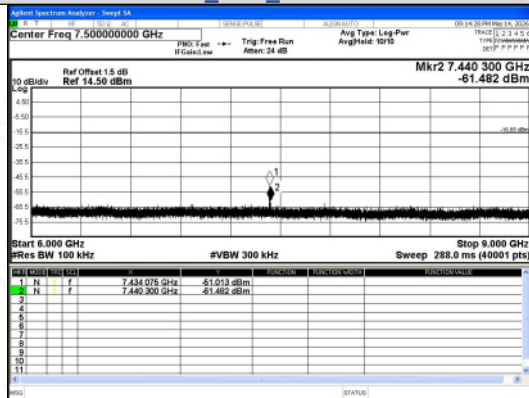
1000.0 MHz - 3000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 78



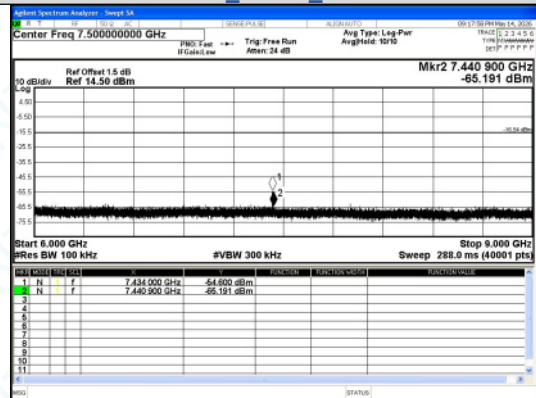
3000.0 MHz - 6000.0 MHz  
GFSK DH5 Channel 78



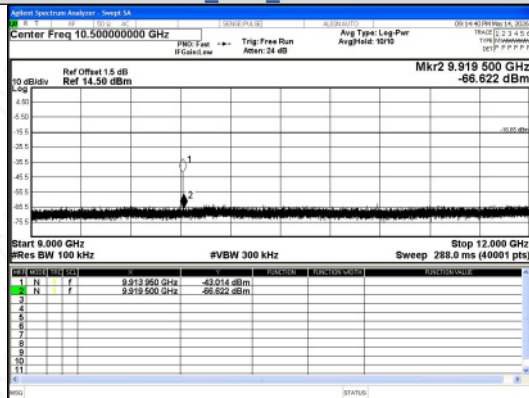
3000.0 MHz - 6000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 78



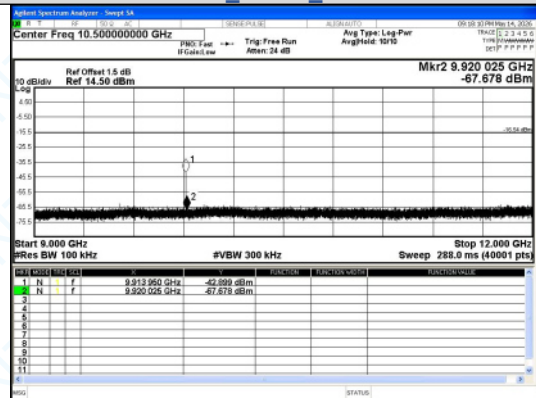
6000.0 MHz - 9000.0 MHz  
GFSK DH5 Channel 78



6000.0 MHz - 9000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 78



9000.0 MHz - 12000.0 MHz  
GFSK DH5 Channel 78



9000.0 MHz - 12000.0 MHz  
 $\pi/4$ DQPSK 2-DH5 Channel 78